

Abstract of the Disclosure:

An ultra sonic sound measurement is used to determine the thickness of a partial layer in a multi-layered structure with reduced boundary surface reflections. A plurality of transmission pulses are produced on a predetermined point on the structure with the help of an ultra sonic probe head. The resulting echo signals associated with a transmission pulse are recorded digitally as an HP image. A plurality of wall thickness echo periods from different running periods are superimposed in a homologous manner with the aid of a computer program.

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